Number 1

Editorials
G. Gutierrez
Splanchnic hypoxia after cardiac surgery 1

J.-L. Vincent
End-points of resuscitation: arterial blood pressure, oxygen delivery, blood lactate, or...? 3

Basic science
G. Gutierrez, M. E. Wulf
Lactic acidosis in sepsis: a commentary 6

Originals
G. Bernardin, C. Pradier, F. Tiger, P. Deloffre, M. Mattei
Blood pressure and arterial lactate level are early indicators of short-term survival in human septic shock 17

A. Uusaro, E. Ruokonen, J. Takala
Splanchnic oxygen transport after cardiac surgery: evidence for inadequate tissue perfusion after stabilization of hemodynamics 26

A. Descorps-Declère, N. Smaïl, B. Vigué, J. Duranteau, O. Mimoz, A. Edouard, K. Samii
Transgastric, pulsed Doppler echocardiographic determination of cardiac output 34

N. M. Kane, S. H. Curry, C. A. Rowlands, A. R. Manara, T. Lewis, T. Moss, B. H. Cummins, S. R. Butler
Event-related potentials – neurophysiological tools for predicting emergence and early outcome from traumatic coma 39

Brief reports
R. Bauer, T. Iijima, K.-A. Hossmann
Influence of severe hemodilution on brain function and brain oxidative metabolism in the cat 47

L. Sanai, W. G. Haynes, A. MacKenzie, I. S. Grant, D. J. Webb
Endothelin production in sepsis and the adult respiratory distress syndrome 52

A. Legras, R. Piquemal, Y. Furet, P. F. Dequin, D. Perrotin
Buflomedil poisoning: five cases with cardiotoxicity 57

Neonatal and pediatric intensive care
A. Sarti, F. Cecchi, A. Manetti, P. Busoni
Arrhythmias and ischemia-like ECG changes in Reye's syndrome 62

P. Kawczyński, A. Piotrowski
Circulatory and diuretic effects of dopexamine infusion in low-birth-weight infants with respiratory failure 65

W. Müller, W. Kachel, P. Lasch, V. Varnholt, S. A. König
Inhaled nitric oxide for avoidance of extracorporeal membrane oxygenation in the treatment of severe persistent pulmonary hypertension of the newborn 71

Review article
J. D. Young, O. J. Dyar
Delivery and monitoring of inhaled nitric oxide 77

Correspondence 87

Announcements 89

Number 2

Editorial
A. Bidani, J. B. Zwischenberger, V. Cardenas
Intracorporeal gas exchange: current status and future development 91

Originals
M. Vitacca, E. Clini, F. Rubini, S. Nava, K. Foglio, N. Ambrosino
Non-invasive mechanical ventilation in severe chronic obstructive lung disease and acute respiratory failure: short- and long-term prognosis 94

M. van Berkel, J. J. L. M. Bierens, R. L. K. Lie, T. P. W. de Rooy, L. J. S. Kool, E. A. van de Velde, A. E. Meinders
Pulmonary oedema, pneumonia and mortality in submersion victims; a retrospective study in 125 patients 101

N. Péry-Man, P. Houeto, C. Coirault, I. Suard, J. Perennec, B. Riou, Y. Lecarpentier
Hydroxocobalamin vs cobalt toxicity on rat cardiac and diaphragmatic muscles 108

C. Camus, C. Charasse, I. Jouannic-Montier, P. Seguin, Y. L. Tulzo, J. Bouget, R. Thomas
Calcium free hemodialysis: experience in the treatment of 33 patients with severe hypercalcemia 116

J. Boldt, M. Müller, D. Kuhn, L. C. Linke, G. Hempelmann
Circulating adhesion molecules in the critically ill: A comparison between trauma and sepsis patients 122

J. E. Irazuzta, U. Ahmed, A. Gancayco, S. T. Ahmed, J. Zhang, K. J. S. Anand
Intratracheal administration of fentanyl: pharmacokinetics and local tissue effects 129

Review article
C. Roussos, S. Zakynthinos
Fatigue of the respiratory muscles 134

Meeting reports
G. Vazquez Mata, K. Rowan, J. E. Zimmerman, E. Aguayo de Hoyos, W. A. Knaus
International comparisons of intensive care: meeting the challenges of different worlds of intensive care 156

M. P. Fink, D. Payen
The role of nitric oxide in sepsis and ARDS: synopsis of a roundtable conference held in Brussels on 18–20 March 1995 158

European Society of Intensive Care Medicine, European Society of Pediatric Intensive Care
Guidelines for a training programme in intensive care medicine 166

Book review 178

Correspondence 173

Announcements 133

Number 3

Editorial
K. Lewandowski
Permissive hypercapnia in ARDS: just do it? 179

Originals
J.-B. Thorens, P. Jolliet, M. Ritz, J.-C. Chevrolet
Effects of rapid permissive hypercapnia on hemodynamics, gas exchange, and oxygen transport and consumption during mechanical ventilation for the acute respiratory distress syndrome 182

R. Kiiski, S. Kaitainen, R. Karppi, J. Takala
Physiological effects of reduced tidal volume at constant minute ventilation and inspiratory flow rate in acute respiratory distress syndrome 192

T. P. Laubscher, A. Frutiger, S. Fanconi, J. X. Brunner
The automatic selection of ventilation parameters during the initial phase of mechanical ventilation 199

P. Navarrete-Navarro, G. Vázquez, J. M. Bosch, E. Fernández, R. Rivera, E. Carazo
Computed tomography vs clinical and multidisciplinary procedures for early evaluation of severe abdomen and chest trauma – a cost analysis approach 208

T. Lherm, G. Troché, M. Rossignol, P. Bordes, J. F. Zazzo
Renal effects of low-dose dopamine in patients with sepsis syndrome or septic shock treated with catecholamines 213

M. J. M. Bonten, C. A. Gaillard, R. W. Stockbrügger, F. H. van Tiel, S. van der Geest, E. E. Stobberingh
Assessment of gastric acidity in intensive care patients: intermittent pH registration cannot replace continuous pH monitoring 220

H. F. Galley, N. R. Webster
Elevated serum bleomycin-detectable iron concentrations in patients with sepsis syndrome 226

F. Vaisson, S.-E. Ricksten, T. Hedner, S. Lundin
Effects of atrial natriuretic peptide on acute renal impairment in patients with heart failure after cardiac surgery 230

Neonatal and pediatric intensive care
A. van Veen, A. Karstens, A. C. J. van der Hoek, D. Tibboel, K. Hählen, E. van der Voort
The prognosis of oncologic patients in the pediatric intensive care unit 237

M. Gevers, H. R. van Genderingen, H. N. Lafeber, W. W. M. Hack
Accuracy of oscillometric blood pressure measurement in critically ill neonates with reference to the arterial pressure wave shape 242

B. Lyons, W. Casey, P. Doherty, M. McHugh, K. P. Moore
Pain relief with low-dose intravenous clonidine in a child with severe burns 249

P. Gessler, T. Nebe, A. Birle, W. Mueller, W. Kachel
A new side effect of inhaled nitric oxide in neonates and infants with pulmonary hypertension: functional impairment of the neutrophil respiratory burst 252

Q. Mok, W. Butt
The outcome of children admitted to intensive care with meningococcal septicaemia 259

M. F. El-Khatib, B. Baumeister, P. G. Smith, R. L. Chatburn, J. L. Blumer
Inspiratory pressure/maximal inspiratory pressure: does it predict successful extubation in critically ill infants and children? 264

Correspondence 269

Announcements 274

Number 4

Editorial
J. F. Nunn
Pulmonary oxygen consumption 275

Originals
P. Jolliet, J. B. Thorens, L. Nicod, C. Pichard, U. Kyle, J. C. Chevrolet
Relationship between pulmonary oxygen consumption, lung inflammation, and calculated venous admixture in patients with acute lung injury 277

C. D. Spies, B. Neuner, T. Neumann, S. Blum, C. Müller, H. Rommelspacher, A. Rieger, C. Sanft, M. Specht, L. Hannemann, H. W. Striebel, W. Schaffartzik
Intercurrent complications in chronic alcoholic men admitted to the intensive care unit following trauma 286

H. M. Oudemans-van Straaten, P. G. M. Jansen, H. te Velthuis, I. C. M. Beenakkers, C. P. Stoutenbeek, S. J. H. van Deventer, A. Sturk, L. Eysman, Ch. R. H. Wildevuur
Increased oxygen consumption after cardiac surgery is associated with the inflammatory response to endotoxemia 294

H. L. Paz, M. Weinar, M. S. Sherman
Motility agents for the placement of weighted and unweighted feeding tubes in critically ill patients 301

J. Boldt, M. Müller, M. Heesen, K. Martin, G. Hempelmann
The effects of pentoxifylline on circulating adhesion molecules in critically ill patients with acute renal failure treated by continuous veno-venous hemofiltration 305

B. W. Böttiger, M. Soder, H. Rauch, H. Böhrer, J. Motsch, H. Bauer, E. Martin
Semi-continuous versus injectate cardiac output measurement in intensive care patients after cardiac surgery 312

I. Parviainen, O. Vaisänen, E. Ruokonen, J. Takala
Effect of nasogastric suction and ranitidine on the calculated gastric intramucosal pH 319

M. Singer, C. Millar, R. Stidwill, R. Unwin
Bladder epithelial oxygen tension – a new means of monitoring regional perfusion? Preliminary study in a model of exsanguination/fluid repletion 324

M. Lichtwarck-Aschoff, A. M. Markström, A. J. Hedlund, J. B. Nielsen, K. A. Nordgren, U. H. Sjöstrand
Oxygenation remains unaffected by increased inspiration-to-expiration ratio but impairs hemodynamics in surfactant-depleted piglets 329

H. P. Grotjohan, R. M. J. L. van der Heijde, J. R. C. Jansen, C. A. Wagenvoort, A. Versprille
A stable model of respiratory distress by small injections of oleic acid in pigs 336

D. Pappert, N. Gilliard, G. Heldt, T. A. Merritt, P. D. Wagner, R. G. Spragg
Effect of N-nitroso-N-methylurethane on gas exchange, lung compliance, and surfactant function of rabbits 345

Brief reports
S. A. R. Webb, S. Stott, P. V. van Heerden
The use of inhaled aerosolized prostacyclin (IAP) in the treatment of pulmonary hypertension secondary to pulmonary embolism 353

F. Molenat, A. Boussuges, V. Valantin, J. M. Sainty
Gallbladder abnormalities in medical ICU patients: an ultrasonographic study 356

P. M. Hopkins
Human recombinant TNFα affects rat diaphragm muscle in vitro 359

Technique
Y. A. Konyukov, N. Kuwayama, T. Fukuoka, T. Takahashi, T. Mayumi, T. Hotta, J. Takezawa
Effects of different triggering systems and external PEEP on trigger capability of the ventilator 363

Book reviews 369

Announcements 370

Number 5

Editorial
F. Lemaire
The prognosis of ARDS: appropriate optimism? 371

Originals
P. Saura, L. Blanch, U. Lucangelo, R. Fernández, J. Mestre, A. Artigas
Use of capnography to detect hypercapnic episodes during weaning from mechanical ventilation 374

M. Borelli, R. Fumagalli, F. Bernasconi, M. Cereda, L. Gattinoni, A. Pesenti
Relief of hypoxemia contributes to a reduction in cardiac index related to the use of positive end-expiratory pressure 382

F. Alvarez-Lerma, ICU-Acquired Pneumonia Study Group
Modification of empiric antibiotic treatment in patients with pneumonia acquired in the intensive care unit 387

G. U. Meduri, J. M. Belenchia, J. D. Massie, M. Eltorky, E. A. Tolley
The role of gallium-67 scintigraphy in diagnosing sources of fever in ventilated patients 395

G. Marecaux, M. R. Pinsky, E. Dupont, R. J. Kahn, J.-L. Vincent
Blood lactate levels are better prognostic indicators than TNF and IL-6 levels in patients with septic shock 404

S. A. Sasse, P. A. Chen, C. K. Mahutte
Relationship of changes in cardiac output to changes in heart rate in medical ICU patients 409

D. R. Goldhill, P. S. Withington
The effect of casemix adjustment on mortality as predicted by APACHE II 415

M. Raucoules-Aimé, M. Drici, B. Goubaux, Y. Labib, C. Ichai, J. Gugenheim, D. Grimaud
Intravenous nicardipine does not alter hepatic blood flow after orthotopic liver transplant 420

O. Habler, M. Kleen, B. Zwissler, R. Pusch, M. Welte, C. Vogelmeier, B. Kempter, F. Krombach, K. Messmer
Inhalation of prostacyclin (PGI_2) for 8 hours does not produce signs of acute pulmonary toxicity in healthy lambs 426

P. Silver, L. Nimkoff, Z. Siddiqi, R. Estrada, M. Sagy
The effect of mannitol on intracranial pressure in relation to serum osmolality in a cat model of cerebral edema 434

Brief reports
N. Smail, A. Descorps Declère, J. Duranteau, B. Vigué, K. Samii
Left ventricular function after severe trauma 439

F. J. H. Botha, P. van der Bijl, H. I. Seifart, D. P. Parkin
Fluctuation of the volume of distribution of amikacin and its effect on once-daily dosage and clearance in a seriously ill patient 443

N. Lefevre, L. Delaunay, J. L. Hingot, F. Bonnet
Bilateral massive adrenal haemorrhage complicating anaphylactic shock: a case report 447

T. Masuda, H. Akiyama, T. Kurosawa, T. Ohwada
Long-term follow-up of coronary artery dissection due to blunt chest trauma with spontaneous healing in a young woman 450

P. Hantson, M. Benaissa, J. L. Clemessy, F. J. Baud
Hyperthermia complicating tricyclic antidepressant overdose 453

P. G. Jorens, L. Heytens, H. E. Demey, S. Andries, G. A. Ricaurte, L. Bossaert, P. J. C. Schepens
Acute poisoning with amphetamines (MDEA) and heroin: antagonistic effects between the two drugs 456

Neonatal and pediatric intensive care
M. Derish, K. Eckert, C. Chin
Reversible cardiomyopathy in a child with Addison's disease 460

G. Ferrazzini, M. Fasnacht, U. Arbenz, R. Seger, R. Biedermann, B. Simma, J. Uehlinger, P. Dangel, S. Fanconi
Neonatal lupus erythematosus with congenital heart block and severe heart failure due to myocarditis and endocarditis of the mitral valve 464

C.-F. Wippermann, R. G. Huth, F. X. Schmidt, J. Thul, M. Betancor, D. Schranz
Continuous measurement of cardiac output by the Fick principle in infants and children: comparison with the thermodilution method 467

J. C. Möller, U. Schwarz, T. F. Schaible, A. Artlich, F. K. Tegtmeyer, L. Gortner
Do cardiac output and serum lactate levels indicate blood transfusion requirements in anemia of prematurity? 472

M. Françoise, J. B. Gouyon, J. C. Mercier
Hemodynamics and oxygenation changes induced by the discontinuation of low-dose inhalational nitric oxide in newborn infants 477

T. Nicolai, R. M. Huber, K. J. Pfeifer, K. Schneider, K. Mantel, C. Schött
Bilateral bronchial balloon dilatation and Strecker stent implantation in a ventilated child with malignant carinal stenosis 482

M. B. Schindler, D. J. Bohn, A. C. Bryan
The effect of single-dose and continuous skeletal muscle paralysis on respiratory system compliance in paediatric intensive care patients 486

C. Bartels, B. Hadzik, M. Abel, B. Roth
Renal failure associated with unrecognized hyperoncotic states after pediatric heart surgery 492

A. Greissman, P. Silver, L. Nimkoff, M. Sagy
Albumin bolus administration versus continuous infusion in critically ill hypoalbuminemic pediatric patients 495

E. J. Pesonen, R. Korpela, M. Leijala, H. Sairanen, O. M. Pitkänen, K. O. Raivio, P. Venge, S. Andersson
Prolonged granulocyte activation, as well as hypoxanthine and free radical production after open heart surgery in children 500

Technique
E. Abraham, T. J. Gallagher, S. Fink
Clinical evaluation of a multiparameter intra-arterial blood-gas sensor 507

Correspondence 514

Announcements 515

Number 6

Editorial
W. A. Knaus
The ongoing mystery of ARDS 517

Originals
P. Krafft, P. Fridrich, T. Pernerstorfer, R. D. Fitzgerald, D. Koc, B. Schneider, A. F. Hammerle, H. Steltzer
The acute respiratory distress syndrome: definitions, severity and clinical outcome. An analysis of 101 clinical investigations 519

A. Rabbat, J. P. Laaban, E. Orvoën-Frija, M. F. Doré, A. Achkar, J. Rochemaure
Bronchial hyperresponsiveness following acute severe asthma 530

I. Gültuna, P. E. M. Huygen, C. Ince, H. Strijdhorst, J. M. Bogaard, H. A. Bruining
Clinical evaluation of diminished early expiratory flow (DEEF) ventilation in mechanically ventilated COPD patients 539

B. Hylander, C. M. Kjellstrand
Prognostic factors and treatment of severe ethylene glycol intoxication 546

E. E. Douzinas, E. Vamvasakis, K. Rigas, M. Pitaridis, C. Kittas, C. Roussos
Bile canaliculi are defective in hepatic involvement of organ failure and recovery of liver function is due to their secondary regeneration 553

C. A. Zauner, R. C. Apsner, A. Kranz, L. Kramer, C. Madl, B. Schneider, B. Schneeweiss, K. Ratheiser, F. Stockenhuber, K. Lenz
Outcome prediction for patients with cirrhosis of the liver in a medical ICU: a comparison of the APACHE scores and liver-specific scoringsystems 559

P. G. Bastos, X. Sun, D. P. Wagner, W. A. Knaus, J. E. Zimmerman, The Brazil APACHE III Study Group
Application of the APACHE III prognostic system in Brazilian intensive care units: a prospective multicenter study 564

E. Nahum, O. Dagan, J. Sulkes, T. Schoenfeld
A comparison between continuous central venous pressure measurement from right atrium and abdominal vena cava or common iliac vein 571

M. M. Berger, T. Lemarchand-Beraud, C. Cavadini, R. Chiolero
Relations between the selenium status and the low T3 syndrome after major trauma 575

Brief reports
K. G. Voelker, K. G. Chetty, C. K. Mahutte
Resolution of recurrent atelectasis in spinal cord injury patients with administration of recombinant human DNase 582

J. Kempf, Th. Rusterholtz, C. Ber, S. Gayol, A. Jaeger
Haemodynamic study as guideline for the use of beta blockers in acute theophylline poisoning 585

G. Putz, C. Hörmann, W. Koller, G. Schön
Surfactant replacement therapy in acute respiratory distress syndrome from viral pneumonia 588

P. G. H. M. Raijmakers, J. J. Bax, A. B. J. Groeneveld, F. C. Visser, G. J. J. Teule, L. G. Thijs
What is the cause of pulmonary oedema after acute myocardial infarction? A case study 591

J. L. Perez-Vela, M. Sanchez Casado, J. A. Sanchez-Izquierdo Riera, A. Ambros Checa, R. Caballero Cubedo, E. Alted Lopez
Neuroleptic malignant syndrome in a patient with head injury 593

Review
N. P. Curzen, K. B. Jourdan, J. A. Mitchell
Endothelial modification of pulmonary vascular tone 596

Book review 608

Correspondence 609

Announcements 618

Number 7

Editorial
G. M. Rocker
Bedside measurement of pulmonary capillary permeability in patients with acute lung injury. What have we learned? 619

A. R. Bodenham, A. Mallick
New dimensions in toxicology: hyperthermic syndrome following amphetamine derivatives 622

Originals
K. K. Guntupalli, R. E. Fromm, Jr.
Burnout in the internist – intensivist 625

B. Leithäuser, F. R. Matthias, U. Nicolai, R. Voss
Hemostatic abnormalities and the severity of illness in patients at the onset of clinically defined sepsis. Possible indication of the degree of endothelial cell activation? 631

T. Koch, S. Heller, K. van Ackern, H. G. Schiefer, H. Neuhof
Impairment of bacterial clearance induced by norepinephrine infusion in rabbits 637

J. Boldt, M. Müller, M. Heesen, S. Heyn, G. Hempelmann
Does long-term continuous administration of pentoxifylline affect platelet function in the critically ill patient? 644

Th. Bein, Ch. Metz, C. Keyl, M. Pfeifer, K. Taeger
Effects of extreme lateral posture on hemodynamics and plasma atrial natriuretic peptide levels in critically ill patients 651

H. Kobayashi, N. Tanaka, M. Winkler, W. M. Zapol
Combined effects of NO inhalation and intravenous $PGF_{2\alpha}$ on pulmonary circulation and gas exchange in an ovine ARDS model 656

P. G. Bastos, W. A. Knaus, J. E. Zimmerman, A. Magalhães Jr, X. Sun, D. P. Wagner, The Brazil APACHE III Study Group
The importance of technology for achieving superior outcomes from intensive care 664

Brief reports
A. P. Hall, I. D. Lyburn, F. D. Spears, B. Riley
An unusual case of Ecstasy poisoning 670

S. C. Deehan, I. S. Grant
Haemodynamic changes in neurogenic pulmonary oedema: effect of dobutamine 672

M. A. Osborne, J. M. Eddleston, W. McNicoll
Inorganic fluoride concentration after long-term sedation with isoflurane 677

Technique
B. Allaouchiche, H. Meugnier, J. Freney, J. Fleurette, J. Motin
Rapid identification of *Staphylococcus aureus* in bronchoalveolar lavage fluid using a DNA probe (Accuprobe) 683

S. A. A. P. Hoeksel, J. J. Schreuder, J. A. Blom, J. G. Maessen, O. C. K. M. Penn
Automated infusion of nitroglycerin to control arterial hypertension during cardiac surgery 688

A. J. Pearson, N. J. N. Harper, B. J. Pollard
The infusion requirements and recovery characteristics of cisatracurium or atracurium in intensive care patients 694

Position paper
D. Baxby, H. K. F. van Saene, C. P. Stoutenbeek, D. F. Zandstra
Selective decontamination of the digestive tract: 13 years on, what it is and what it is not 699

Meeting report
J.-L. Vincent, R. Moreno, J. Takala, S. Willatts, A. De Mendonça, H. Bruining, C. K. Reinhart, P. M. Suter, L. G. Thijs
The SOFA (Sepsis-related Organ Failure Assessment) score to describe organ dysfunction/failure. On behalf of the Working Group on Sepsis-Related Problems of the European Society of Intensive Care Medicine (see contributors to the project in the appendix) 707

Correspondence 711

Book review 719

Announcements 720

Number 8

Obituary
P. M. Suter, R. Ritz
Gunther Wolff, M. D. 1932–1994 721

Editorial
R. A. Reinhart
Serum and erythrocyte magnesium in critically ill patients? 722

Originals
C. Guérin, C. Cousin, F. Mignot, M. Manchon, G. Fournier
Serum and erythrocyte magnesium in critically ill patients 724

S. Lundin, U. Nathorst Westfelt, O. Stenqvist, H. Blomqvist, A. Lindh, L. Berggren, S. Arvidsson, U. Rudberg, C. G. Frostell
Response to nitric oxide inhalation in early acute lung injury 728

M. Antonelli, M. L. Moro, R. R. D'Errico, G. Conti, M. Bufi, A. Gasparetto
Early and late onset bacteremia have different risk factors in trauma patients 735

B. Misset, J.-F. Timsit, S. Chevret, B. Renaud, F. Tamion, J. Carlet
A randomized cross-over comparison of the hemodynamic response to intermittent hemodialysis and continuous hemofiltration in ICU patients with acute renal failure 742

G. Van der Schueren, M. Diltoer, M. Laureys, L. Huyghens
Intermittent hemodialysis in critically ill patients with multiple organ dysfunction syndrome is associated with intestinal intramucosal acidosis 747

E. A. Leitch, J. L. Moran, B. Grealy
Weaning and extubation in the intensive care unit. Clinical or index-driven approach? 752

T. S. Karlsrud, L. Buø, A. O. Aasen, H. T. Johansen
Cleavage of plasma high molecular weight kininogen in surgical ICU patients 760

H. H. Woltjer, H. J. Bogaard, H. I. van der Spoel, P. M. J. M. de Vries
The influence of weight on stroke volume determination by means of impedance cardiography in cardiac surgery patients 766

M. Dambrosio, G. Fiore, N. Brienza, G. Cinnella, M. Marucci, V. M. Ranieri, M. Greco, A. Brienza
Right ventricular myocardial function in ARF patients. PEEP as a challenge for the right heart 772

H. M. Oudemans-van Straaten, G. J. Scheffer, C. P. Stoutenbeek
Analysis of P_{50} and oxygen transport in patients after cardiac surgery 781

D. Gui, P. L. Spada, A. De Gaetano, F. Pacelli
Hypocholesterolemia and risk of death in the critically ill surgical patient 790

G. F. E. Nöldge-Schomburg, H.-J. Priebe, K. Armbruster, B. Pannen, J. Haberstroh, K. Geiger
Different effects of early endotoxaemia on hepatic and small intestinal oxygenation in pigs 795

H. Iwasaki, H. Ohmori, S. Sumita, M. Yamauchi, A. Namiki
Influence of continuous positive airway pressure on EMG activities of the cricothyroid and posterior cricoarytenoid muscles of the canine larynx 805

Brief report
F. Wappler, N. Roewer, A. Köchling, H. Braune, T. Reissinger, J. Schulte am Esch
Fulminant malignant hyperthermia associated with ketoacidotic diabetic coma 809

Technique
A. Versprille, M. van Oosterhout, J. R. C. Jansen
Haemodynamic and respiratory conditions during alternating and synchronous ventilation of both lungs 813

Review article
B. Venkatesh, S.-P. Hendry
Continuous intra-arterial blood gas monitoring 818

Correspondence 829

Announcements 839

Number 9

Editorials
C. F. Bolton
Neuromuscular conditions in the intensive care unit 841

J. T. Locher
Occult sepsis: fate or challenge? 844

C. Brun-Buisson
Practice guidelines for prevention of infection in European ICUs: A call for standards 847

Originals
K. Berek, J. Margreiter, J. Willeit, A. Berek, E. Schmutzhard, N. J. Mutz
Polyneuropathies in critically ill patients: a prospective evaluation 849

F. S. S. Leijten, A. W. De Weerd, D. C. J. Poortvliet, V. A. De Ridder, C. Ulrich, J. E. Harinck-De Weerd
Critical illness polyneuropathy in multiple organ dysfunction syndrome and weaning from the ventilator 856

B. L. Appadu, J. M. C. Greiff, J. P. Thompson
Postal survey on the long-term use of neuromuscular block in the intensive care 862

G. Minoja, M. Chiaranda, A. Fachinetti, M. Raso, L. Dominioni, D. Torre, D. De Palma
The clinical use of 99m-Tc-labeled WBC scintigraphy in critically ill surgical and trauma patients with occult sepsis 867

M. L. Moro, O. B. Jepsen, The EURO.NIS Study Group
Infection control practices in intensive care units of 14 European countries 872

O. Eichelbrönner, H. Reinelt, H. Wiedeck, M. Mezödy, R. Rossaint, M. Georgieff, P. Radermacher
Aerosolized prostacyclin and inhaled nitric oxide in septic shock – different effects on splanchnic oxygenation? 880

T. Staudinger, E. Presterl, W. Graninger, G. J. Locker, S. Knapp, K. Laczika, G. Klappacher, B. Stoiser, A. Wagner, P. Tesinsky, H. Kordova, M. Frass
Influence of pentoxifylline on cytokine levels and inflammatory parameters in septic shock 888

J. Briegel, G. Schelling, M. Haller, W. Mraz, H. Forst, K. Peter
A comparison of the adrenocortical response during septic shock and after complete recovery 894

W. A. De Backer, B. Amsel, P. G. Jorens, L. Bossaert, P. S. Hiemstra, P. van Noort, F. J. van Overveld
N-Acetylcysteine pretreatment of cardiac surgery patients influences plasma neutrophil elastase and neutrophil influx in bronchoalveolar lavage fluid 900

F. Fiedler, G. Jauernig, V. Keim, A. Richter, H.-J. Bender
Octreotide treatment in patients with necrotizing pancreatitis and pulmonary failure 909

M. A. Slama, A. Novara, P. Van de Putte, B. Diebold, A. Safavian, M. Safar, M. Ossart, J. Y. Fagon
Diagnostic and therapeutic implications of transesophageal echocardiography in medical ICU patients with unexplained shock, hypoxemia, or suspected endocarditis 916

M. Dambrosio, G. Cinnella, N. Brienza, V. M. Ranieri, R. Giuliani, F. Bruno, T. Fiore, A. Brienza
Effects of positive end-expiratory pressure on right ventricular function in COPD patients during acute ventilatory failure 923

L. I. Ho, H. J. Harn, T. C. Lien, P. Y. Hu, J. H. Wang
Postextubation laryngeal edema in adults Risk factor evaluation and prevention by hydrocortisone 933

F. Barrachina, J. J. Guardiola, T. Añó, A. Ochagavia, J. Mariné
Percutaneous dilatational cricothyroidotomy: outcome with 44 consecutive patients 937

U. Corbanese, C. Possamai, L. Casagrande, P. Bordino
Evaluation of trauma care: validation of the TRISS method in an Italian ICU 941

M. Capuzzo, M. Bianconi, P. Contu, V. Pavoni, G. Gritti
Survival and quality of life after intensive care 947

Neonatal and pediatric intensive care
D. G. Markhorst, T. Leenhoven, J. W. Uiterwijk, J. Meulenbelt, A. J. van Vught
Occupational exposure during nitric oxide inhalational therapy in a pediatric intensive care setting 954

T. Tikanoja, P. Rautiainen, M. Leijala, E. Svens, S. Tikanoja
Hyperamylasemia after cardiac surgery in infants and children 959

L. J. Smith, M. H. El Habbal
Application of kinetics in intensive care management of children with generalized oedema 964

H. G. Kehl, D. Kececioglu, H. Vielhaber, S. Kotthoff, M. Weyand, G. Jorch, J. Vogt, U. Nowak-Göttl
Left atrial thrombus in a 10-month-old boy – successful thrombolysis with recombinant tissue-type plasminogen activator after open-heart surgery: review of the literature

M. Z. Youssef-Ahmed, P. Silver, L. Nimkoff, M. Sagy
Continuous infusion of ketamine in mechanically ventilated children with refractory bronchospasm 972

L. Bindl, S. Buderus, M. Ramirez, P. Kirchhoff, M. J. Lentze
Cisapride reduces postoperative gastrocaecal transit time after cardiac surgery in children 977

Brief reports
B. Misset, A. Artigas, D. Bihari, J. Carlet, A. Durocher, M. Hemmer, M. Langer, F. Nicolas, P. de Rohan-Chabot, H. P. Schuster, A. Tensillon
Short-term impact of the European Consensus Conference on the use of selective decontamination of the digestive tract with antibiotics in ICU patients 981

S. Natoli, C. Fimiani, N. Faglieri, L. Laurenzi, A. Calamaro, A. M. Frasca, E. Arcuri
Toxic shock syndrome due to group C Streptococci. A case report 985

Case reports
S. E. Lowenkron, J. Waxner, P. Khullar, J. S. Ilowite, M. S. Niederman, A. M. Fein
Clostridium difficile infection as a cause of severe sepsis 990

K. J. Dar, M. E. McBrien
MDMA induced hyperthermia: report of a fatality and review of current therapy 995

Correspondence 997

Announcements 1002

Number 10

Editorials
C. L. Sprung, L. A. Eidelman
Worldwide similarities and differences in the forgoing of life-sustaining treatments 1003

M. Hemmer
Regional blood flow and hemorrhage. How far do the protective mechanisms go? 1006

Review
M. Osborne, J. Patterson
Ethical allocation of ICU resources: a view from the USA 1009

Originals
G. Mellitorp, T. Nilstun
Decisions to forego life-sustaining treatment and the duty of documentation 1015

J. S. Turner, W. L. Michell, C. J. Morgan, S. R. Benatar
Limitation of life support: frequency and practice in a London and a Cape Town intensive care unit 1020

K. F. Waschke, M. Riedel, D. M. Albrecht, K. van Ackern, W. Kuschinsky
Regional heterogeneity of cerebral blood flow response to graded volume-controlled hemorrhage 1026

R. Rivera Fernandez, J. J. Sanchez Cruz, G. Vazquez Mata
Validation of a quality of life questionnaire for critically ill patients 1034

G. Tempel, B. von Hundelshausen, W. Reeker
The opiate-sparing effect of dipyrone in post-operative pain therapy with morphine using a patient-controlled analgesic system 1043

A. Sicignano, C. Carozzi, D. Giudici, G. Merli, S. Arlati, M. Pulici, on behalf of ARCHIDIA
The Influence of length of stay in the ICU on power of discrimination of a multipurpose severity score (SAPS) 1048

P. Saura, L. Blanch, J. Mestre, J. Vallés, A. Artigas, R. Fernández
Clinical consequences of the implementation of a weaning protocol 1052

V. Jarlier, T. Fosse, A. Philippon, ICU Study Group
Antibiotic susceptibility in aerobic gram-negative bacilli isolated in intensive care units in 39 French teaching hospitals (ICU study) 1057

A. Bach, D. Darby, B. Böttiger, H. Böhrer, J. Motsch, E. Martin
Retention of the antibiotic teicoplanin on a hydromer-coated central venous catheter to prevent bacterial colonization in postoperative surgical patients 1066

M. Bochicchio, N. Latronico, S. Zappa, A. Beindorf, A. Candiani
Bedside burr hole for intracranial pressure monitoring performed by intensive care physicians. A 5-year experience 1070

J. Boldt, M. Müller, M. Heesen, O. Heyn, G. Hempelmann
Influence of different volume therapies on platelet function in the critically ill 1075

A. Versprille, M. van Oosterhout
Cross-talk between the lungs in piglets 1082

Brief reports
M. Avellanal, L. Fernández-Quero, J. M. Barrios, P. Sánchez, J. Navia
Pourfour du Petit syndrome: a case following a traffic accident with severe cranioencephalic trauma 1090

S. Al-Alaiyan, A. Al-Omran, D. Dyer
The use of phosphodiesterase inhibitor (dipyridamole) to wean from inhaled nitric oxide 1093

K. J. Heath, M. J. Sampson, S. A. Ridley
An unusual cause for collapse in a patient with arthritis 1096

Neonatal and pediatric intensive care
J. J. Stambouly, L. L. McLaughlin, F. S. Mandel, R. A. Boxer
Complications of care in a pediatric intensive care unit: a prospective study 1098

Technique originals
K. M. Vollman, J. J. Bander
Improved oxygenation utilizing a prone positioner in patients with acute respiratory distress syndrome 1105

J. R. Hotchkiss Jr., P. S. Crooke III, J. J. Marini
Theoretical interactions between ventilator settings and proximal deadspace ventilation during tracheal gas insufflation 1112

B. J. M. van der Meer, H. H. Woltjer, A. M. Sousman, W. O. Schreuder, E. R. Bulder, M. A. J. M. Huybregts, P. M. J. M. de Vries
Impedance cardiography. Importance of the equation and the electrode configuration 1120

L. Jacquet, G. Hanique, D. Glorieux, P. Matte, M. Goenen
Analysis of the accuracy of continuous thermodilution cardiac output measurement. Comparison with intermittent thermodilution and Fick cardiac output measurement 1125

Correspondence 1130

Announcements 1136

Number 11

Editorials
L. Brochard
Pressure-support ventilation: still a simple mode? 1137

D. Pittet
Predicting nosocomial pneumonia in the ICU . . . an ongoing challenge 1139

C. P. Larson Jr
Continuous arterial blood gas monitoring: a technology in transition 1141

M. P. Fink
Does tissue acidosis in sepsis indicate tissue hypoperfusion? 1144

Originals
G. Bonmarchand, V. Chevron, C. Chopin, D. Jusserand, C. Girault, F. Moritz, J. Leroy, P. Pasquis
Increased initial flow rate reduces inspiratory work of breathing during pressure support ventilation in patients with exacerbation of chronic obstructive pulmonary disease 1147

A. Kropec, G. Schulgen, H. Just, K. Geiger, M. Schumacher, F. Daschner
Scoring system for nosocomial pneumonia in ICUs 1155

E. E. Roupie, L. Brochard, F. J. Lemaire
Clinical evaluation of a continuous intra-arterial blood gas system in critically ill patients 1162

S. Fujishima, J. Sasaki, Y. Shinozawa, K. Takuma, H. Kimura, M. Suzuki, M. Kanazawa, S. Hori, N. Aikawa
Serum MIP-1α and IL-8 in septic patients 1169

T. Tsubo, Y. Hashimoto, I. Araki, H. Ishihara, A. Matsuki
Cortisol and catecholamine kinetics during continuous hemodiafiltration in patients with multiple organ dysfunction syndrome 1176

W. Plöchl, L. Pezawas, O. Artemiou, M. Grimm, W. Klepetko, M. Hiesmayr
Nutritional status, ICU duration and ICU mortality in lung transplant recipients 1179

M. Treggiari-Venzi, A. Borgeat, T. Fuchs-Buder, J.-P. Gachoud, P. M. Suter
Overnight sedation with midazolam or propofol in the ICU: effects on sleep quality, anxiety and depression 1186

G. Buunk, J. G. van der Hoeven, M. Frölich, A. E. Meinders
Cerebral vasoconstriction in comatose patients resuscitated from a cardiac arrest? 1191

P. H. P. Groeneveld, K. M. C. Kwappenberg, J. A. M. Langermans, P. H. Nibbering, L. Curtis
Nitric oxide (NO) production correlates with renal insufficiency and multiple organ dysfunction syndrome in severe sepsis 1197

Experimental
T. Uchida, K. Ichikawa, K. Yokoyama, C. Mitaka, H. Toyooka, K. Amaha
Inhaled nitric oxide improved the outcome of severe right ventricular failure caused by lipopolysaccharide administration 1203

J. Schmidt, K. Huch, K. Mithöfer, H. G. Hotz, H. P. Sinn, H. J. Buhr, A. L. Warshaw, C. Herfarth, E. Klar
Benefits of various dextrans after delayed therapy in necrotizing pancreatitis of the rat 1207

M. Fischer, B. W. Böttiger, S. Popov-Cenic, K.-A. Hossmann
Thrombolysis using plasminogen activator and heparin reduces cerebral no-reflow after resuscitation from cardiac arrest: an experimental study in the cat 1214

B. Roth, M. Ekelund, B.-G. Fan, I. Hägerstrand, P. Nilsson-Ehle
Lipid deposition in Kupffer cells after parenteral fat nutrition in rats: a biochemical and ultrastructural study 1224

O. Habler, M. Kleen, S. Takenaka, R. Leiderer, R. Pusch, M. Welte, B. Zwissler, K. Messmer
Eight hours' inhalation of prostacyclin (PGI_2) in healthy lambs: effects on tracheal, bronchial, and alveolar morphology 1232

Technical
G. Tzelepis, V. Kadas, A. Michalopoulos, S. Geroulanos
Comparison of gastric air tonometry with standard saline tonometry 1239

F. Stéphan, D. Méharzi, S. Ricci, A. Fajac, F. Clergue, J.-F. Bernaudin
Evaluation by polymerase chain reaction of cytomegalovirus reactivation in intensive care patients under mechanical ventilation 1244

Consensus report
3rd European Consensus Conference in Intensive Care Medicine
Tissue hypoxia. How to detect, how to correct, how to prevent? 1250

Special article
M. Shahla, A. R. Hedeshi, V. Verhaeghe, J. Gomez, J. L. Vincent
International participation in major intensive care journals. "The smaller the better" 1258

Brief reports
G. D. Leslie, I. G. Jacobs, G. M. Clarke
Proximally delivered dilute heparin does not improve circuit life in continuous venovenous haemodiafiltration 1261

F. Lucchin, N. Minicuci, M. A. Ravasi, L. Cordella, M. Palù, M. Cetoli, P. Borin
Comparison of A-mode ultrasound and computed tomography: detection of secretion in maxillary and frontal sinuses in ventilated patients 1265

A. A. Chiang, K. C. Lee, J. C. Lee, C. H. Wei
Effectiveness of a continuous quality improvement program aiming to reduce unplanned extubation: a prospective study 1269

Correspondence 1272

Announcements 1283

Number 12

Editorials
M. S. Niederman
Severe community-acquired pneumonia: what do we need to know to effectively manage patients? 1285

A. Torres, M. El-Ebiary
Prognosis factors in severe community-acquired pneumonia: a step forward 1288

S. W. Crawford
Aspergillosis in the ICU: the glass half-empty? 1291

Originals
P. M. Olaechea, J. M. Quintana, M. S. Gallardo, J. Insausti, E. Maravi, B. Alvarez
A predictive model for the treatment approach to community-acquired pneumonia in patients needing ICU admission 1294

P. D. Potgieter, J. M. J. Hammond
The intensive care management, mortality and prognostic indicators in severe community-acquired pneumococcal pneumonia 1301

O. Leroy, H. Georges, C. Beuscart, B. Guery, C. Coffinier, C. Vandenbussche, D. Thevenin, G. Beaucaire
Severe community-acquired pneumonia in ICUs: prospective validation of a prognostic score 1307

J. J. W. M. Janssen, R. J. M. Strack van Schijndel, E. H. van der Poest Clement, G. J. Ossenkoppele, L. G. Thijs, P. C. Huijgens
Outcome of ICU treatment in invasive aspergillosis 1315

P. Andrivet, G. Richard, F. Viau, J.-Y. Letinier, C. Darne, C. Vu Ngoc
Treatment of respiratory failure using minitracheotomy and intratracheal oxygenation in selected patients with chronic lung disease 1323

R. Fretschner, T. P. Laubscher, J. X. Brunner
New aspects of pulmonary mechanics: "slowly" distensible compartments of the respiratory system, identified by a PEEP step maneuver 1328

S. Bhagwanjee, D. J. J. Muckart
Routine daily chest radiography is not indicated for ventilated patients in a surgical ICU 1335

D. K. Heyland, G. Tougas, D. King, D. J. Cook
Impaired gastric emptying in mechanically ventilated, critically ill patients 1339

R. Gust, A. Gottschalk, H. Schmidt, B. W. Böttiger, H. Böhrer, E. Martin
Effects of continuous (CPAP) and bi-level positive airway pressure (BiPAP) on extravascular lung water after extubation of the trachea in patients following coronary artery bypass grafting 1345

E. Roupie, K. Bouabdallah, C. Delclaux, C. Brun-Buisson, F. Lemaire, N. Vasile, L. Brochard
Intrapleural administration of streptokinase in complicated purulent pleural effusion: a CT-guided strategy 1351

A. Meier-Hellmann, M. Specht, L. Hannemann, H. Hassel, D. L. Bredle, K. Reinhart
Splanchnic blood flow is greater in septic shock treated with norepinephrine than in severe sepsis 1354

J. N. Hoffmann, W. H. Hartl, R. Deppisch, E. Faist, M. Jochum, D. Inthorn
Effect of hemofiltration of hemodynamics and systemic concentrations of anaphylatoxins and cytokines in human sepsis 1360

G. Apolone, G. Bertolini, R. D'Amico, G. Iapichino, A. Cattaneo, G. De Salvo, R. M. Melotti
The performance of SAPS II in a cohort of patients admitted to 99 Italian ICUs: results from GiViTI 1368

X. Badia, A. Díaz-Prieto, M. Rué, D. L. Patrick
Measuring health and health state preferences among critically ill patients 1379

C. Haberthür, F. Lehmann, R. Ritz
Assessment of depth of midazolam sedation using objective parameters 1385

P. Combes, B. Fauvage, M. Colonna, J. G. Passagia, J. P. Chirossel, C. Jacquot
Severe head injuries: an outcome prediction and survival analysis 1391

I. Malagon, R. M. Grounds, E. D. Bennett
Changes in cardiac output during air ambulance repatriation 1396

J.-L. Clemessy, G. Angel, S. W. Borron, M. Ndiaye, F. Le Brun, H. Julien, M. Galliot, E. Vicaut, F. J. Baud
Therapeutic trial of diazepam versus placebo in acute chloroquine intoxications of moderate gravity 1400

Brief reports
G. Pfeiffer, G. Winkler, P. Neunzig, W. Wolf, G. Thayssen, K. Kunze
Long-term management of acute respiratory failure in metabolic myopathy 1406

P. Unger, E. Stoupel, J.-L. Vachiery, D. De Backer
Atrial septostomy under transesophageal guidance in a patient with primary pulmonary hypertension and absent right superior vena cava 1410

Neonatal and pediatric intensive care
F. Mosca, M. Colnaghi, F. Castoldi
Lung lavage with a saline volume similar to functional residual capacity followed by surfactant administration in newborns with severe meconium aspiration syndrome 1412

I. K. Weiss, S. Fink, S. Edmunds, R. Harrison, K. Donnelly
Continuous arterial gas monitoring: initial experience with the Paratrend 7 in children 1414

L. B. Siegel, H. J. Dalton, J. H. Hertzog, R. A. Hopkins, R. L. Hannan, G. J. Hauser
Initial postoperative serum lactate levels predict survival in children after open heart surgery 1418

S. Finfer, D. Bohn, D. Colpitts, P. Cox, F. Fleming, G. Barker
Intensive care management of paediatric organ donors and its effect on post-transplant organ function 1424

H. H. Derkx, J. van den Hoek, W. K. Redekop, R. P. G. M. Bijlmer, S. J. H. van Deventer, P. M. M. Bossuyt
Meningococcal disease: a comparison of eight severity scores in 125 children 1433

S. Hachimi-Idrissi, L. Corne, V. Maes, J. Ramet
Gitaloxin poisoning in a child 1442

Experimental
K. G. Hickling, I. G. Town, M. Epton, A. Neill, A. Tie, M. Whitehead, P. Graham, E. Everest, G. A'Court, B. Darlow, K. Laubscher
Pressure-limited ventilation with permissive hypercapnia and minimum PEEP in saline-lavaged rabbits allows progressive improvement in oxygenation, but does not avoid ventilator-induced lung injury 1445

J. Jahr, P.-O. Grände
Prostacyclin counteracts the increase in capillary permeability induced by tumour necrosis factor-α 1453

Correspondence 1461

Announcements 1469

Acknowledgements to referees 1470

Author index 1473

Subject index 1478

Contents of volume 22